



US 20140235245A1

(19) **United States**

(12) **Patent Application Publication**
Wegmann et al.

(10) **Pub. No.: US 2014/0235245 A1**

(43) **Pub. Date: Aug. 21, 2014**

(54) **OPTIMIZING A HANDOVER BEHAVIOR OF
A MOBILE RADIO COMMUNICATION
NETWORK BASED ON AN EXTENDED
RECORD BEING ASSOCIATED WITH A USER
EQUIPMENT**

Publication Classification

(51) **Int. Cl.**
H04W 36/00 (2006.01)
(52) **U.S. Cl.**
CPC *H04W 36/0083* (2013.01)
USPC **455/436**

(75) Inventors: **Bernhard Wegmann**, Holzkirchen (DE);
Ingo Viering, Munich (DE); **Krzysztof**
Kordybach, Pulawy (PL); **Daniela**
Laselva, Klarup (DK)

(57) **ABSTRACT**

It is described a method for optimizing a handover behavior of a mobile radio communication network including at least a first base station and a second base station. The method includes (a) performing a handover of a user equipment from the first base station to the second base station, (b) adding an information element representing a property of the radio link between the user equipment and the first base station to a data record being associated with the user equipment, (c) transferring the data record from the first base station to the second base station and (d) optimizing the handover behavior of the mobile radio communication network based on the added information element. It is further described a first base station and a second base station, which in conjunction which each other, are configured for carrying out the described handover behavior optimization method.

(73) Assignee: **Nokia Siemens Networks Oy**, Espoo
(FI)

(21) Appl. No.: **14/238,210**

(22) PCT Filed: **Aug. 11, 2011**

(86) PCT No.: **PCT/EP2011/063825**

§ 371 (c)(1),
(2), (4) Date: **May 2, 2014**

